

ACE**Chassis 701**

General Description : Chassis type 701 forms the basic chassis for "The Prince" table radio receiver and "The Minnigram", "The Elizabethan" and "The Tudor" auto-radiogramophones. It is a five-valve (including rectifier), three-waveband receiver for A.C. mains.

Power Supply : A.C. mains, 200–240 volts (three adjustment tappings). Isolated chassis.

Valves : (V1) 12AH8; (V2) 6BA6; (V3) 6AT6; (V4) 6BW6; (V5) 6X4.

Intermediate Frequency : 472 kc/s.

Alignment Procedure :

| Waveband | Frequency Mc/s. | Wavelength, m. | Adjust | |
|----------|--------------------|-------------------|-------------------------|---------------------|
| | | | Oscillator | Aerial |
| L.W. . | 0.15 | 2000 | L.W. oscillator core | L.W. aerial core |
| | 0.30 | 1000 | L.W. oscillator trimmer | L.W. aerial trimmer |
| M.W. . | 0.6 | 500 | M.W. oscillator core | M.W. aerial core |
| | 1.5 | 200 | M.W. oscillator trimmer | M.W. aerial trimmer |
| S.W. . | 6.0 | 50 | S.W. oscillator core | S.W. aerial core |
| | 15.0 | 20 | S.W. oscillator trimmer | S.W. aerial trimmer |

I.F. transformers are aligned for maximum output at 472 kc/s. with the tuning capacitor fully closed on L.W. The signal generator should be connected to the control grid of the 12AH8 (pin 2) through a 0.1- μ F. capacitor. When I.F. alignment has been completed the signal generator should be transferred to the aerial socket and the I.F. trap coil adjusted for minimum output at 472 kc/s.

Check that the pointer lines up with the marker above 50 m. when the tuning gang is fully closed.

R.F. alignment is carried out in the usual manner in the order shown above, with the signal generator connected to the aerial and earth sockets through a dummy aerial. The oscillator coils are those nearest the centre of the chassis.

When aligning short waves slightly rock tuning gang around the aligning frequency.

